# SWAYAM YADAV

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## EDUCATION

**Kalinga Institute of Industrial Technology, Bhubaneswar, India**           **October 2021 - Present**
*Bachelor of Technology in Computer Science & Engineering*                                    *CGPA: 6.79*

**St. Joseph College, Bhalwari, Nepal**                                          **October 2018 - April 2020**
*Senior Secondary School (12th)*                                                      *Percentage: 77.5%*

## SKILLS

**Programming Languages**: Python, C/C++
**Cybersecurity Tools**: SIEM Tools, OSINT Tools, Reconnaissance Tools, Kali Linux
**Security Knowledge**: Cryptography, Threat Management, Incident Response, Security Frameworks and Control
**Technologies**: OpenCV, MediaPipe, Scikit-learn, Matplotlib
**Academic Background**: Data Analytics, Internet of things, Data Structures and Algorithms, Object Oriented Programming, Database Management System

## CERTIFICATIONS

**Python for Everybody Specialization** (*Coursera*)                              **Jan 2024 - Mar 2024**
**Google Cybersecurity Professional Certificate** (*Coursera*)                   **May 2024 - July 2024**
**Programming Fundamentals using Python - Part 1** (*Infosys*)                    **Aug 2024 - Aug 2024**
**Google IT Automation with Python Professional Certificate** (*Coursera*)       **May 2024 - Present**
**Ethical Hacker** (*Cisco Networking Academy*)                                  **May 2024 - Present**

## PROJECTS

### Private Key Encryption and Decryption                                          **GitHub**

- Developed AES encryption mechanism with CBC mode in Python using PyCryptodome to securely encrypt and decrypt private keys, ensuring data protection and confidentiality.
- Utilized password-based key derivation by applying SHA-256 to generate a strong 32-byte encryption key from user passwords, enhancing encryption security.
- Applied base64 encoding and decoding to handle and transmit binary data in a text-friendly format, facilitating efficient data storage and retrieval.

### Smart Door Lock Using Face Recognition System                                  **GitHub**

- Developed a smart door lock system using facial recognition with Python and OpenCV, gaining practical experience with image processing and model training using the LBPH classifier.
- Designed a Tinkercad simulation to understand the integration of facial recognition technology with Arduino, applying key concepts in a simulated environment.
- Enhanced understanding of security system development and hardware-software interaction through hands-on application and project execution.

### American Sign Language Detection System                                         **GitHub**

- Implemented an ASL detection system utilizing Python, Random Forest Classifier, and OpenCV for gesture recognition, and MediaPipe for precise hand tracking, gaining foundational knowledge in computer vision and machine learning.
- Serialized the trained model using Pickle for efficient deployment, deepening understanding of real-time data processing and model deployment techniques.
- Enhanced skills in applying machine learning algorithms to solve real-world problems, focusing on gesture recognition and real-time processing.

## EXTRACURRICULAR ACTIVITIES

**Member of CyberVault, KIIT University**                                          **2023 – Present**
*Cyber Security society of KIIT.*

**Lead Member of KORUS Individual Dance Crew, KIIT University**                    **2022 – Present**
*Lead performances and coordinate team activities.*

**Active Member of Obstruction Dance Crew, Nepal**                                 **2018 – Present**
*Contribute to choreography and performance planning.*